

ABSTRACT OF THE DISCLOSURE

10023197 121304

An electro-kinetic electro-static air conditioner includes a self-contained ion generator that provides electro-kinetically moved air with ions and safe amounts of ozone. The ion generator includes a high voltage pulse generator whose output pulses are coupled between first and second electrode arrays. Preferably the first array comprises one or more wire electrodes spaced staggeringly apart from a second array comprising hollow "U"-shaped electrodes. Preferably a ratio between effective area of an electrode in the second array compared to effective area of an electrode in the first array exceeds about 15:1 and preferably is about 20:1. An electric field produced by the high voltage pulses between the arrays produces an electrostatic flow of ionized air containing safe amounts of ozone. A bias electrode, electrically coupled to the second array electrodes, affects net polarity of ions generated. The outflow of ionized air and ozone is thus conditioned.

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